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O F F I C E

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FORM PTO 1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. P67452US0	APPLICATION NO. 10/083,336
		APPLICANT(s) Olsen, et al.	
		FILING DATE 27 February 2002	ART GROUP 1652

U.S. PATENT DOCUMENTS

EXAMINER'S INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
MML	AA	4,080,457	03/1978	Harrison et al.			
	AB	4,689,401	08/1987	Ferris			
	AC	4,962,188	10/1990	Frankel			
	AD	5,453,271	09/1995	Lemley, et al.			
	AE	5,547,867	08/1996	Kara, et al.			
	AF	5,622,838	04/1997	Lord, et al.			
	AG	5,626,844	05/1997	Lemley, et al.			
	AH	5,646,026	08/1997	Walsh, et al.			
↓	AI	6,060,066	05/2000	Lemley, Jr., et al.			
MML	AJ	6,084,073	07/2000	Piatak, Jr.			

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
MML	AK	WO 00/53215	09/2000	PCT Int'l.			<input type="checkbox"/> Yes <input type="checkbox"/> No

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

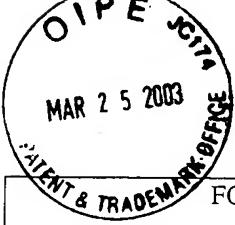
EXAMINER'S INITIAL			Include Author, Title, Date, Pertinent, etc.
MML	AL	1	Aboud-Pirak, E, et al. (1993) "Identification of a Neutralizing Epitope on a Chain and Application ", Medical Defense Bioscience Review, Proceedings (5):1431-1440
	AM	1	Afrin, LB, et al (1994) "Expression of Oligohistidine-Tagged Ricin B. Chain in <i>Spodoptera frugiperda</i> " Bioconjugate Chem. 5(6):539-546
	AN	1	Appukuttan, PS, et al (1979) "Separation of Polypeptide Chains of Ricin and the Interaction of the A Chain With Cibacron Blue F <sub>3</sub> GA" Biochimica et Biophysica Acta, 580:10-14
	AO	1	Argent, RH, et al. (1995) "Purification of Recombinant Ricin A Chain after Reassociation with Ricin B Chain" Analytical Biochemistry (224):459-460
MML	AP	1	Blakey, DC, et al. (1987) "Effect of Chemical Deglycosylation of Ricin A Chain on the <i>in Vivo</i> Fate and Cytotoxic Activity of an Immunotoxin Composed of Ricin A Chain and Anti-Thy 1.1 Antibody", Cancer Research (47):947-952

EXAMINER

MML

9/15/03

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EXAMINER'S INITIAL			Include Author, Title, Date, Pertinent, etc.
<i>mmol</i>	AQ	<u>1</u>	Baluna, R, <i>et al.</i> (1999) "Evidence for a structural motif in toxins and interleukin-2 that may be responsible for binding to endothelial cells and initiating vascular leak syndrome", Proc. Natl. Acad. Sci. (96):3957-3963
	AR	<u>1</u>	Bradley, JL, <i>et al.</i> (1989) "Site-directed mutagenesis at amino terminus of recombinant ricin A chain" Int. J. Peptide Protein Res. (34):2-5
	AS	<u>1</u>	Brigotti, M, <i>et al.</i> (1998) "A rapid and sensitive method to measure the enzymatic activity of ribosome-inactivating proteins" Nucleic Acids Research, (26):18
	AT	<u>1</u>	"Chemical Warfare Agents, and Related Chemical Problems, Parts I-II", Ricin, Chapter 12, Summary Technical Report of Div. 9, NDRA , Volume 1 (1946)
	AU	<u>1</u>	Byers, V, <i>et al.</i> (1993) "Suppression of Antibody Responses to Ricin A Chain (RTA) by Monoclonal Anti-RTA Antibodies" Journal of Clinical Immunology, (13):6
	AV	<u>1</u>	Chang, MS, <i>et al.</i> (1987) "Cloning and expression of recombinant, functional ricin B chain" Proc. Natl. Acad. Sci, (84):5640-5644
	AW	<u>1</u>	Chanh, TC, <i>et al.</i> (1993) "Monoclonal Antibody Prophylaxis Against the <i>In Vivo</i> Toxicity of Ricin in Mice" Immunological Investigations 22(1):63-72
	AX	<u>1</u>	Colombatti, M, <i>et al.</i> (1986) "Monoclonal Antibodies Against Ricin: Effects on Toxin Function" HYBRIDOMA 5(1): 9-19
	AY	<u>1</u>	Day, PJ, <i>et al.</i> (1996) "Structure and Activity of an Active Site Substitution of Ricin A Chain" Biochemistry (35):11098-11103
	AZ	<u>1</u>	Despeyroux, D, <i>et al.</i> (2000) "Characterization of Ricin Heterogeneity by Electrospray Mass Spectrometry, Capillary Electrophoresis, and Resonant Mirror", Analytical Biochemistry (279):23-36
	BA	<u>1</u>	Emmanuel, F, <i>et al.</i> (1988) "Separation of Ricin A- and B-Chains after Dithiothreitol Reduction" Analytical Biochemistry (173):134-141
	BB	<u>1</u>	Ferrini, JB, <i>et al.</i> (1995) "Expression of functional ricin B chain using the baculovirus system" Eur. J. Biochem. (233):772-777
	BC	<u>1</u>	Foxwell, BM, <i>et al.</i> (1987) "The preparation of deglycosylated ricin by recombination of glycosidase-treated A- and B-chains: effects of deglycosylation on toxicity and in vivo distribution" Biochimica et Biophysica Acta (923):59-65
<i>mmol</i>	BD	<u>1</u>	Foxwell, BMJ, <i>et al.</i> (1985) "The removal of carbohydrates from ricin with endoglycosidases H, F and D and $\alpha$ -mannosidase", Biochimica et Biophysica Acta (840):193-203
EXAMINER	<i>mmol</i>		<i>8151V3</i>
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EXAMINER'S INITIAL			Include Author, Title, Date, Pertinent, etc.	
<i>mmml</i>	BE	<u>1</u>	Foxwell, BMJ, et al. (1985) "The Use of Anti-ricin Antibodies to Protect Mice Intoxicated with Ricin" <i>Toxicology</i> , (34):79-88	
	BF	<u>1</u>	Frankel, A, et al. (1994) "Expression of ricin B chain in <i>Spodoptera frugiperda</i> " <i>Biochem. J.</i> (303):787-794	
	BG	<u>1</u>	Frankel, A, et al. (1989) "Selection and Characterization of Ricin Toxin A-Chain Mutations in <i>Saccharomyces cerevisiae</i> " <i>Molecular and Cellular Biology</i> , 9(2):415-420	
	BH	<u>1</u>	Franz, DR, et al. "Ricin Toxin" <i>Medical Aspects of Chemical &amp; Biological Warfare</i> 631-642	
	BI	<u>1</u>	Frénoy, JP (1986) "Effect of physical environment on the conformation of ricin" <i>Biochem. J.</i> (240):221-226	
	BJ	<u>1</u>	Frénoy, JP et al. (1986) "Structure and stability of <i>Ricinus communis</i> haemagglutinin" <i>Biochem. J.</i> (240):227-231	
	BK	<u>1</u>	Frigerio, L, et al. (2001) "The Internal Propeptide of the Ricin Precursor Carries a Sequence-Specific Determinant for Vacuolar Sorting" <i>Plant Physiology</i> (126):167-175	
	BL	<u>1</u>	Fulton, R.J., et al. (1986) "Purification of Ricin A <sub>1</sub> , A <sub>2</sub> , and B Chains and Characterization of Their Toxicity" <i>The Journal of Biological Chemistry</i> 261(12):5314-5319	
	BM	<u>1</u>	Furukawa-Stoffer, TL, et al. (1999) "A Novel Biological-Based Assay for the Screening of Neutralizing Antibodies to Ricin" <i>HYBRIDOMA</i> 18(6):505-510	
	BN	<u>1</u>	Griffiths, GD, et al. (1999) "Comparison of the quality of protection elicited by toxoid and peptide liposomal vaccine formulations against ricin as assessed by markers of inflammation" <i>Vaccine</i> (17):2562-2568	
	BO	<u>1</u>	Griffiths, GD, et al. (1995) "Protection against inhalation toxicity of ricin and abrin by immunisation" <i>Human &amp; Experimental Toxicology</i> (14):155-164	
	BP	<u>1</u>	Griffiths, GD, et al. (1997) "Liposomally-encapsulated ricin toxoid vaccine delivered intratracheally elicits a good immune response and protects against a lethal pulmonary dose of ricin toxin" <i>Vaccine</i> 15(17/18):1933-1939	
	BQ	<u>1</u>	Griffiths, GD, et al. "The inhalation toxicology of the castor bean toxin, ricin, and protection by vaccination" <i>Journal of Defense Science</i> 1(2):227-235	
<i>mmml</i>	BR	<u>1</u>	Hale, ML (2001) "Microtiter-Based Assay for Evaluating the Biological Activity of Ribosome-Inactivating Proteins" <i>Pharmacology &amp; Toxicology</i> (88):255-260	
<i>mmml</i>	BS	<u>1</u>	Hewetson, JF, et al. (1993) "Protection of mice from inhaled ricin by vaccination with ricin or by passive treatment with heterologous antibody" <i>Vaccine</i> 11(7):743-746	
EXAMINER				<i>mmml</i> 9/15/03
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mmq	BT	1	Hussain, K, et al. (1989) "Expression of ricin B chain in <i>Escherichia coli</i> " FEBS Letters 244(2):383-387
	BU	1	Katzin, BJ, et al. (1991) "Structure of Ricin A-Chain at 2.5 Å" PROTEINS: Structure, Function, and Genetics (10):251-259
	BV	1	Kim, Y, et al. (1992) "Analysis of several key active site residues of ricin A chain by mutagenesis and X-ray crystallography" Protein Engineering 5(8):775-779
	BW	1	Kim, Y, et al. (1992) "Structure of a Ricin Mutant Showing Rescue of Activity by a Noncatalytic Residue" Biochemistry (31):3294-3296
	BX	1	Kurinov, IV, et al. (1999) X-ray crystallographic analysis of the structural basis for the interaction of pokeweed antiviral protein with guanine residues of ribosomal RNA" Protein Science (8):2399-2405
	BY	1	Lamb, FI, et al. (1985) "Nucleotide sequence of cloned cDNA coding for proricin" Bar J. Biochem 1(48):265-270
	BZ	1	Langer, M, et al. (1996) "A Nonradioactive Assay for Ribosome-Inactivating Proteins" Analytical Biochemistry (243):150-153
	CA	1	Langer, M. et al. "A Nonradioactive Assay for Ribosome-Inactivating Proteins" BRAIN GmbH, Bio. Res. & Info. Network
	CB	1	Lebeda, FJ, et al. (1999) "Prediction of a conserved, neutralizing epitope in ribosome-inactivating proteins" Int'l. Journal of Bio. Macromolecules (24):19-26
	CC	1	Lemley, PV, et al. (1992) "Mice are actively immunized after passive monoclonal antibody prophylaxis and ricin toxin challenge" Immunology (76):511-513
	CD	1	Lemley, PV, et al. (1992) "Prophylactic and therapeutic efficacy of an avian antitoxin in ricin intoxication" Therapeutic Immunology (2):59-66
	CE	1	Lemley, PV, et al. (1994) "Identification and Characterization of A Monoclonal Antibody that Neutralizes Ricin Toxicity <i>in Vitro</i> and <i>in Vivo</i> " HYBRIDOMA 13(5):417-421
	CF	1	Lewis, MS, et al. (1986) "Thermodynamics and the Role of the Disulfide Bond in Toxicity" Ricin Subunit Association 11571-11577
	CG	1	Mlsna, D, et al. (1993) "Structure of recombinant ricin a chain at 2.3 Å" Protein Science (2):429-435
↓ mmq	CH	1	Montfort, W, et al. (1987) "The Three-dimensional Structure of Ricin at 2.8 Å" The Journal of Biological Chemistry 262(11):5398-5403
mmq	CI	1	O'Hare, M, et al. (1992) "Biological activity of recombinant <i>Ricinus communis</i> agglutinin A chain produced in <i>Escherichia coli</i> " FEBS Letters 299(3):209-212

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mmq

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EXAMINER'S INITIAL			Include Author, Title, Date, Pertinent, etc.
<i>MMR</i>	CJ	<u>1</u>	Olson, MA (2001) "Electrostatic effects on the free-energy balance in folding a ribosome-inactivating protein" Biophysical Chemistry (91):219-229
	CK	<u>1</u>	Olson, MA (2001) "Calculations of Free-Energy Contributions to Protein-RNA Complex Stabilization" Biophysical Journal (81):1841-1853
	CL	<u>1</u>	Olson, MA (1999) "Free Energy Determinants of Binding the rRNA Substrate and Small Ligands to Ricin A-Chain" Biophysical Journal (76):28-39
	CM	<u>1</u>	Olson, MA (1997) "Ricin A-Chain Structural Determinant for Binding Substrate Analogs: A Molecular Dynamics Simulation Analysis" PROTEINS: Structure, Function, and Genetics (27):80-95
	CN	<u>1</u>	Olsnes, S, et al. (2001) "Ricin" Toxicon (39):1723-1728
	CO	<u>1</u>	Pastan, I, et al. (1992) "Recombinant Toxins as Novel Therapeutic Agents" Annu Rev. Biochem (61):331-54
	CP	<u>1</u>	Pistak, M, et al. (1988) "Expression of Soluble and Fully Functional Ricin A Chain in <i>Escherichia coli</i> is Temperature-sensitive" The Journal of Biological Chemistry 263(10):4837-4843
	CQ	<u>1</u>	Poli, MA, et al. (1996) "Aerosolized Specific Antibody Protects Mice From Lung Injury Associated With Aerosolized Ricin Exposure" Toxicon 34(9):1037-1044
	CR	<u>1</u>	Ready, MP, et al. (1991) "Site-Directed Mutagenesis of Ricin A-Chain and Implications for the Mechanism of Action" PROTEINS: Structure, Function, and Genetics (10):270-278
	CS	<u>1</u>	Richardson, PT, et al. (1988) "The expression of functional ricin B-chain in <i>Saccharomyces cerevisiae</i> " Biochimica et Biophysica Acta ( 950):385-394
	CT	<u>1</u>	Robertus, J, et al. (1987) "Crystallization of Ricin A Chain Obtained from a Cloned Gene Expressed in <i>Escherichia coli</i> " The Journal of Biological Chemistry 262(1):19-20
<i>MMR</i>	CU	<u>1</u>	Rutember, E, et al. (1991) "Crystallographic Refinement of Ricin to 2.5 Å" PROTEINS: Structure, Function, and Genetics (10):240-250
EXAMINER	<i>MMR</i>		9/15/03

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MM2	CV	<u>1</u>	Rutenber, E, et al. (1991) "Structure of Ricin B-Chain at 2.5 Å Resolution" PROTEINS: Structure, Function, and Genetics (10):260-269
	CW	<u>1</u>	Schlossman, D et al. (1989) "Role of Glutamic Acid 177 of the Recin Toxin A Chain in Enzymatic Inactivation of Ribosomes" Molecular and Cellular Biology 9(11):5012-5021
	CX	<u>1</u>	Schramm, V (1997) "Enzymatic N-riboside scission in RNA and RNA precursors" Curr. Opin. Chem. Biol. 1:323-331
	CY	<u>1</u>	Simmons, BM, et al. (1985) "A Single Affinity Column Step Method for the Purification of Ricin Toxin from Castor Beans ( <i>Ricinus communis</i> ) Analytical Biochemistry (146):206-210
	CZ	<u>1</u>	Smallshaw, JE, et al. (2002) "A novel recombinant vaccine which protects mice against ricin intoxication" Vaccine (20):3422-3427
	DA	<u>1</u>	Tagge, E, et al. (1997) "Synthesis of Green Fluorescent Protein-Ricin and Monitoring of Its Intracellular Trafficking" Bioconjugate Chem. (8):743-750
	DB	<u>1</u>	Tagge, et al. (1996) "Preproricin Expressed in <i>Nicotiana tabacum</i> Cells in Vitro Fully Processed and Biologically Active" In-Vitro Plant Cell Expression of Preproricin (8):109-118
	DC	<u>1</u>	Vitetta, ES, et al. (1990) "Expression and functional properties of genetically engineered ricin B chain lacking galactose-binding activity" Biochimica et Biophysica Acta, (1049):151-157
	DD	<u>1</u>	Vitetta, E, et al. Vaccines to Protect Against Aerosolized Ricin UTSD:0723
	DE	<u>1</u>	Vogel, P, et al. (1996) "Comparison of the Pulmonary Distribution and Efficacy of Antibodies Given to Mice by Intratracheal Instillation or Aerosol Inhalation" Lab. Animal Science 46(5):516-523
MM2	DF	<u>1</u>	Wales, R, et al. (1994) "Ricin B. chain fragments expressed in <i>Escherichia coli</i> are able to bind free galactose in contrast to the full length polypeptide" Glycoconjugate Journal (11):274-281
MM2	DG	<u>1</u>	Weston, SA, et al. (1994) "X-ray Structure of Recombinant Ricin A-Chain at 1.8 Å Resolution" J. Mol. Bio. (244):410-422
EXAMINER	MM2		3/15/03

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FOREIGN PATENT DOCUMENTS							
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS							
EXAMINER'S INITIAL			Include Author, Date, Title, Pertinent, etc.				
<i>mmml</i>	DL	<u>1</u>	Chen, X., et al. (1998) "Ricin A-Chain: Kinetics, Mechanism, and RNA Stem – Loop Inhibitors" Biochemistry 37:11605-11613.				
	DM	<u>1</u>	Gould, J., et al. (1991) "Alteration of an amino acid residue outside the active site of the ricin A chain reduces its toxicity towards yeast ribosomes" Mol. Gen. Genet. 230:81-90.				
	DN	<u>1</u>	Lord, J., et al. (1991) "Ribosome inactivating proteins of plants" Cell Biology 2:15-22.				
<i>mmml</i>	DO	<u>1</u>	Robertus, Jon. (1991) "The structure and action of ricin, a cytotoxic N-glycosidase" Cell Biology 2:23-30.				
EXAMINER	<i>mmml</i>			9/18/03			

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